

LIBRARY OF THE
UNIVERSITY OF ILLINOIS
AT URBANA-CHAMPAIGN

016.7114 C73e no.935-947



CITY PLANNING AND LANDSCAPE ARCHITECTUPE

Digitized by the Internet Archive in 2010 with funding from University of Illinois Urbana-Champaign







73e

Council of Planning Librarians EXCHANGE BIBLIOGRAPHY

December 1975

938

LANDSCAPE VISUAL RESOURCES

Sally Schauman, Landscape Architect Soil Conservation Service USDA, Washington

ine Larry of the

DEC 03 1975

University of minors at Urbana-Champaign



LANDSCAPE VISUAL RESOURCES

by

Sally Schauman Landscape Architect Soil Conservation Service TISDA Washington, D.C. July 30, 1975

The scenic quality or visual resources of the landscape are of increasing concern to all individuals, agencies and groups that decide landscape changes. Farming, mining and building can and will modify the visual character of the American landscape. Since the magnitude and intensity of these activities will increase, it is crucial that they occur within a resource conservation framework.

The visual resources may be conserved by applying natural resource management techniques. For example, the visual elements of the landscape may be identified, inventoried and described in a consistent taxonomy. These elements may be then evaluated in terms of their utility, uniqueness and desirability. Finally, the existing and proposed modifications may be assessed to determine the actual resource quality changes, and to surface the visual problems and potentials within any given landscape.

During the past fifteen years a beginning construct for visual resource theory has emerged. CPL Bibliographies #287 (Cerny), #299 (Lieker), and #304 (March) list much of the initial literature. Although we have learned much during the past few years, visual resource technology is still in a nascent phase. This bibliography includes more recent literature or reference not cited previously. The contents of each reference has been keyed to the following visual resource subject areas:

A. Taxonomy/Landscape Classification

Includes classification. measurements, and assessments of the physical landscape in terms of visual elements.

B. Viewer Preferences

Includes preference studies of various landscape user groups as to visual landscape factors.

C. Visual Perception

Includes theories and studies on how mankind perceives the visual environment. Much research on perception is ongoing, and too voluminous for this bibliography. Those cited herein should be considered as only indicative of the research scope and range.

D. Landscape Management

Includes general theory and specific processes for conserving the landscape visual resource.

The literature cited herein comes from various sources, many are non-publically published reports. Some of these are available from the National Technical Information Service (NTIS), U.S. Department of Commerce, Room 620, 425 13th Street N.W., Washington, D.C. 2004.

BIBLIOGRAPHY

Acking, Carl-Axel and Gunnar Jarle Sorte. "How Do We Verbalize What We See," <u>Landscape Architecture</u>, LXIV, 1, October 1973. A B

3.

- Acking, Carl-Axel and Rikard Kuller. "Presentation and Judgment of Planned Environment and the Hypothesis of Arousal," in <u>Environmental Design Research</u>, Vol. 2, W.F.E. Preiser, ed. Dowden, Hutchinson and Ross, 1973, pp. 72-83. A B C
- Arnheim, Rudolf, Visual Thinking. London: Faber and Faber, 1969.
- Bagley, Marilyn, Cynthia A. Kroll and Kristin Clark. "Aesthetics in Environmental Planning," Socioeconomic Environmental Studies Series. Washington, D.C.: U.S. Environmental Protection Agency, EPA = 600/5-73-009, November 1973. D
- Beckett, P.H.T. "The Interaction Between Knowledge and Aesthetic Appreciation," Landscape Research News, I, 8, Spring 1971, p. 5. B
- Berlyn, D. E., ed. "Studies in the New Experimental Aesthetics," 1974. C
- Bevins, Malcolm L. "Attitudes on Environmental Quality in Six Vermont Lakeshore Communities," Northeast Regional Research Publication. Burlington, Vermont: Vermont Agricultural Experiment Station, University of Vermont, n.d. B
- Brown, Perry J., ed. "Toward a Technique for Quantifying Aesthetic Quality of Water Resources," report prepared for U.S. Army Engineer Institute for Water Resources, October 1974. A D
- Calvin, James S., J. A. Dearinger and Mary E. Curtin. "An Attempt at Assessing Preferences for Natural Landscapes,"

 <u>Environment and Behavior</u>, IV, 4, December 1972, pp. 447-469.

 A B
- Chapman, Vida. "Reactions to Development in the Countryside in Terms of Landscape Change," <u>Landscape Research News</u>, I, 7, Spring 1974, pp. 4-7. B
- Craik, Kenneth H. "Appraising the Objectivity of Landscape Dimension," in Natural Environments, John V. Krutilla, ed. Johns Hopkins Press, 1972, pp. 292-346. A B
- Psychological Factors in Landscape Appraisal, contribution to Symposium: Behavioral Geography: Critiques and Directions, Association of American Geographers Annual Meeting, Boston, Massachusetts, April 19, 1971. B C

- 4.
- Cunningham, Michael C., et. al. "Toward a Perceptual Tool in Urban Design: A Street Simulation Pilot Study," in Environmental Design Research, Vol. W.F.E. Preiser, ed. Dowden, Hutchinson and Ross, 1973, pp. 62-71. A B.C.
- Dearinger, John A. "Evaluating Recreation Potential of Small Streams," <u>Journal of the Urban Planning and Development Division</u>, Proceedings of the American Society of Civil Engineers, XCVIII, (UPI), July 1972, pp. 85-102. A B
- Dearinger, John A. and George M. Woolwine. Measuring the Intangible Values of Natural Streams, Part I 1971, and Part II 1973. Lexington, Kentucky: Kentucky Water Resources Research Institute, University of Kentucky. Available NTIS. A B
- Devlin, Ann Sloan. "Some Factors in Enhancing Knowledge of a Natural Area," in <u>Environmental Design Research</u>, Vol. 2, W.F.E. Preiser, ed. Dowden, Hutchinson and Ross, 1973, pp. 200-206. A C
- Fabos, Julius Gy. An Analysis of Environmental Quality Ranking

 Systems, Recreation Symposium Proceedings, USDA Forest Service,

 Northeast Forest Experimental Station, 1971, pp. 40-57. A D
- Fabos, Julius, et. al. "Model for Landscape Resource Assessment,"
 Part 1 of the Metropolitan Landscape Planning Model (METLAND),
 Massachusetts Agricultural Experiment Station Bulletin 602,
 Amherst, Massachusetts, June 1973. A B C
- Flachsbart, Peter G. and George L. Peterson. "Dynamics of Preference for Visual Attributes of Housing Environments," in Environment Design Research, Vol. 2, W.F.E. Preiser, ed. Dowden, Hutchinson and Ross, 1973, pp. 98-106. B
- Forest Service. <u>USDA National Forest Landscape Management</u>, Vol. I, Agriculture Handbook No. 434. Washington, D.C., 1973. D
- Chapter 1, The Visual Management System, Agriculture Handbook No. 462. Washington, D.C., 1974. B D
- Gauger, Stephen E. and J. B. Wyckoff. "Aesthetic Preference for Water Resource Projects: An Application of Q Methodology," Water Resources Bulletin, American Water Resources Association, IX, 3, June 1973, pp. 522-528. B
- Gibson, J. J. "Ecological Optics," <u>Vision Research</u>, XIX, 1961, pp. 253-262. C
- Gratzer, Miklos S. and Robert D. McDowell. "Adaptation of an Eye Movement Recorder to Aesthetic Environment Mensuration," Research Report No. 36, Storr Agricultural Experiment Station, Connecticut, 1971. C

- Haber. R. N. "How We Remember What We See," Scientific American, CCVII, 5, May 1970, pp. 104-12. C
- Hampe. Gary D., V. E Smith and J. P. Mitchell. "Water Related Aesthetic Preferences of Wyoming Residents." Laramie, Wyoming: Wyoming University. Water Resources Research Institute. 1974. Available NTIS. A B
- Hebblethwaite, R. L. "Landscape Assessment and Classification Techniques in Land Use and Landscape Planning," Derek Lovejoy, ed., 1973. A
- Hendrix, William. "The Visual Land Use Compatability Component of the Model for Landscape Resource Assessment," master thesis. Amherst. Massachusetts: Department of Landscape Architecture and Regional Planning, University of Massachusetts, 1973. A D
- Hendrix, William and J. Gy. Fabos. "Visual Land Use Compatibility as a Significant Contributor to Visual Resource Quality," International Journal of Environmental Studies, I, 1974, pp. 1-8. A B
- Hopkins. "The Quantitative Assessment of Visual Intrusion," Journal of Town Planning Institute, VII, 10, 1971. A B
- Iowa State Water Resources Research Institute. Ames Reservoir Environmental Study, Appendix I. Ames, Iowa: Iowa State University. 1973. Available NTIS. A
- Jacobs, Peter and Douglas Way. "How Much Development Can the Landscape Absorb," Landscape Architecture Quarterly, LIX, July 1969, pp. 296-98. A
- Kaplan, Rachel. "Predictors of Environmental Preference: Designers and 'Clients'," in Environmental Design Research, Vol. I, W.F.E. Preiser, ed. Dowden, Hutchinson and Ross, 1973, pp. 265-283. B
- "The Dimensions of the Visual Environment: Methodological Considerations," in Environmental Design: Research and Practice, W. J. Mitchell, ed. Proceedings of the 3rd Environmental Design Research Association Conference, Los Angeles, California, 1972. A B

- 6.
- Kaplan, Stephen. "Cognitive Maps, Human Needs and the Designed Environment," in <u>Environmental Design Research</u>, W.F.E. Preiser, ed. Dowden, Hutchinson and Ross, 1973, pp. 275-283.
- . "Cognitive Maps in Perception and Thought," in Cognitive Mapping: Images of Spatial Environments, Downs and Stea, eds. Chicago, Illinois.
- Kaplan, Stephen and Jolun S. Wendt. "Rated Preference and Complexity for National and Urban Visual Material," <u>Perception and Psychophysics</u>, XII, 4, October 1972, pp. 354-357. B C
- Kasmar, Joyce Vielhauer. "The Development of a Usable Lexicon of Environmental Description," Environment and Behavior, September 1970, pp. 153-169. A B
- Kooyoomjian, K. Jack and Nocholas L. Clesceri. "Perception of Water Quality by Select Respondent Groupings in Inland Water-Based Recreational Environments," <u>Water Resources Bulletin</u>, X, 4, August 1974, pp. 739-743. B
- Kreimer, Alcera. "Building the Imagery of San Francisco, an Analysis of Controversy over High-Rise Development, 1970-71," in Environmental Design Research, Vol. II, W.F.E. Preiser, ed. Dowden, Hutchinson and Ross, 1973, pp. 221-231. B
- Kuint, Eugene R. and Karen Calhoon. "Smith River Highway Visual Analysis," a report done for FS/USDA by Royston, Hanamoto, Beck, and Abey, Inc., landscape architects, San Francisco, California, February 1973, reprinted 1975 as FS/USDA report EM-7700-3. A
- Litton, R. Burton. "Aesthetic Dimensions of the Landscape," in Natural Environments, John V. Krutilla, ed. Johns Hopkins Press, 1972, pp. 262-291. A
- . "Landscape Control Points: A Procedure for Predicting and Monitoring Visual Impacts," USDA Forest Service Research Paper PSW 91, Pacific Southwest Forest and Range Experiment Station, Berkeley, California, 1973. C
- . "Visual Vulnerability of Forest Landscape," <u>Journal</u> of Forestry, LXII, 7, July 1974, pp. 392-397. A C
- . "Visual Landscape Units of Lake Tahoe Region," scenic analyses of the Lake Tahoe region, USDA Forest Service, South Lake Tahoe, California, 1971, pp. 6-14. A
- Litton, R. Burton, Robert J. Tetlow, et. al. "Water and the Landscape," an aesthetic overview of the role of water in the landscape, Water Information Center, Inc., Port Washington, New York, 1974. A C D

- Mackworth, Norman H. and Anthony J. Morandi. "The Gaze Selects Informative Details within Pictures," <u>Perception and Psychophysics</u>, II, 1967, pp. 545-552. C
- McWhinnie, Harold James. "A Review of Recent Literature in Perceptual/Cognitive Style with Implications for Theory and Research in Art Education," Studies in Art Education, XI, Spring 1970, pp. 31-38. C
- Minnaert, M. The Nature of Light and Colour in the Open Air.

 New York: Dover Publication, 1954. A
- Mitchell, James P. "A Study of Aesthetic Preferences," masters thesis, University of Wyoming. December 1974. Available NTIS.
- Moeller, George H., Robert MacLachlan and Douglas A. Morrison.

 "Measuring Perception of Elements in Outdoor Environments,"

 USDA Forest Service Research Paper NE-289, Northeast Forest

 Experiment Station, Upper Darby, Pennsylvania, 1974. A B C
- Mulder, William J., Jr. "Development of Criteria for Scenic Roads," <u>Transportation Research Record 508</u> Social Economic, Behavioral and Urban Growth Consideration in Planning, Transportation Research Board, National Academy of Science, Washington, D.C., 1974. A
- Nighswonger, James J. A Methodology for Inventorying and Evaluating the Scenic Quality and Related Recreation Value of Kansas Streams. Manhattan, Kansas. March 1970. Available NTIS. A B
- Peterson, George L. "A Model of Preference: Quantitative Analysis of Perception of the Visual Appearance of Residential Neighborhoods," <u>Journal of Regional Science</u>, 1967, pp. 19-31.
- Pines, Maya. "We Are Left-Brained or Right-Brained," The New York Times Magazine, September 9, 1973, pp. 32-34. C
- Polakowski, Kenneth J. "An Aesthetic Basis for Visual Resource Analysis," seminar paper, Impact Assessment in Water Resources Planning Seminar, sponsored by U.S. Corps of Army Engineers Institute, held at School of Natural Resources, University of Michigan, Ann Arbor, Michigan, June 1973. A D
- Potter, Dale R. and J. Alan Wagar. "Techniques for Inventorying Manmade Impacts in Roadway Environments," USDA Forest Service Research Paper PNW-121, Pacific Northwest Forest and Range Experiment Station, Portland, Oregon, 1971. D
- Rabinowtiz, Carla B. and Robert E. Coughlin. "Some Experiments in Quantitative Measurement of Landscape Quality," Regional Science Research Institute, Discussion Paper No. 43, March 1971. B

- Schauman, Sally. "Visual Resource Design for Water Resource Structures," <u>Transactions of the American Society of Agricul-</u> <u>tural Engineers</u>, XVIII, 4, July-August 1975. D
- Segall, Marshall, D. T. Campbell and M. J. Herskovits. "Cultural Differences in the Perception of Geometric Illusions," <u>Science</u>, CXXIX, February 1963, pp. 769-771. C
- Shafer, Elwood L., Jr. "Perception of Natural Environments," Environment and Behavior, I, June 1969, pp. 71-82. B C
- Shafer, Elwood L., Jr. and Thomas A. Richards. "A Comparison of Viewer Reaction to Outdoor Scenes and Photographs of Those Scenes," USDA Forest Service Research Paper NE-302, Northeast Forest Experiment Station, Upper Darby, Pennsylvania, 1974. B.C
- Sonnenfeld, Joseph. "Equivalence and Distortion of the Perceptual Environment," Environment and Behavior, I, June 1969, pp. 83-89. B C
- Stea, David. "Environmental Perception and Cognition Toward a Model for Mental Maps," in Response to the Environment, Coates and Moffett, eds. Raleigh, North Carolina: North Carolina State University School of Design Student Publication, XVIII, 1969, pp. 63-76. C
- Wright, G. "Appraisal of Visual Landscape Qualities in a Region Selected for Accelerated Growth," <u>Landscape Planning</u>, I, 4, December 1974, pp. 307-324. A D
- Zube, E. H. "Scenery as a Natural Resource: Implications of Public Policy and Problems of Definition, Description and Evaluation," <u>Landscape Architecture Quarterly</u>, LXIII, 2, January 1973, pp. 126-132. D
- . "Rating Everyday Rural Landscapes," Landscape Architecture Quarterly, LXIII, 4, July 1973, pp. 370-375. A B
- Zube, Ervin H., David G. Pitts and Thomas W. Anderson. "Perception and Measurement of Scenic Resources in the Southern Connecticut River Valley," Publication R-74-1, Institute for Man and His Environment, Amherst, Massachusetts, January 1974. A B
- Zube, E. H., R. O. Brush and J. Gy. Fabos, eds. <u>Landscape</u>

 <u>Assessment: Values, Perceptions and Resources.</u> Dowden,

 Hutchinson, and Ross. 1975. A B C D

9. CPL Exchange Bibliography #938

COUNCIL OF PLANNING LIBRARIANS

Exchange Bibliography #938

LANDSCAPE VISUAL RESOURCES

Additional copies available from:

Council of Planning Librarians Post Office Box 229 Monticello, Illinois 61856

















UNIVERSITY OF ILLINOIS-URBANA

816.7114C73E C901 EXCHANGE BIBLIOGRAPHY, URBANA, ILL 935-947 1975